

ABSTRACT

A thermal control device for controlling the temperature of a craft/spacecraft by means of an electrostatic switch to change the mode of heat transfer of the craft/spacecraft skin from conduction to radiation. The change is by means of a large change in apparent emissivity. The device can operate with moderate levels of DC voltages. Application of voltage results in high emissivity while removal of voltage results in low emissivity.

0991002-11501
FOUO 20075660